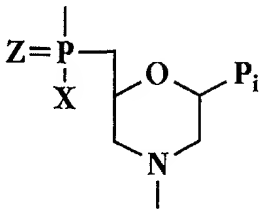


Fig. 1A

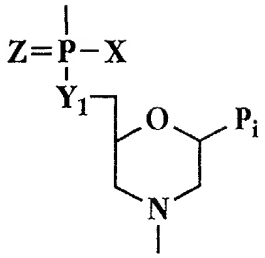


Fig. 1B

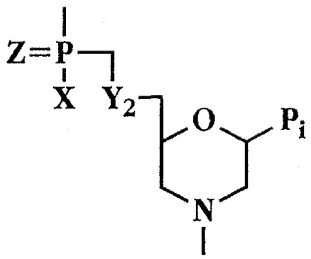


Fig. 1C

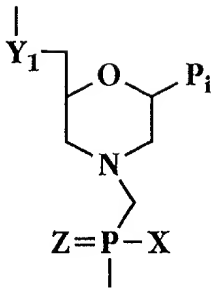


Fig. 1D

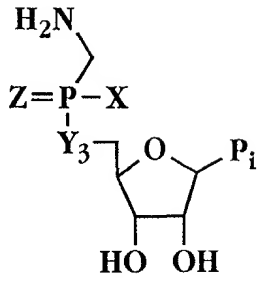


Fig. 1E

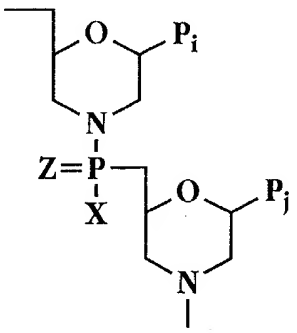


Fig. 2A-A

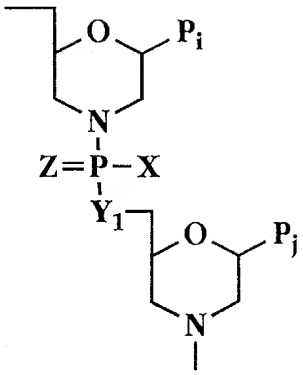


Fig. 2B-B

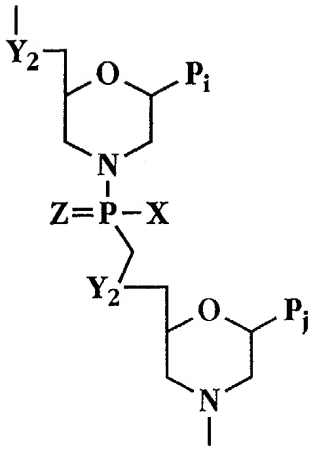


Fig. 2C-C

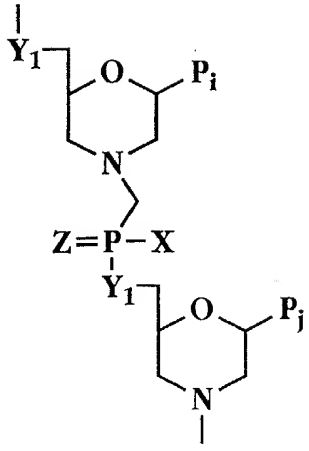


Fig. 2D-D/E-E

TQ0E80 35hEhG60

TGCAACTCCCCGTAGCAGCG	charged
ACGTTGAGGGGCATCGTCGC	uncharged
TGCAACTCCCCGTAGCAGCG	charged
ACGTTGAGGGGCATCGTC	uncharged
TGACAACTCCCCGTAGCAGCG	charged
ACGTTGAGGGGCATCG	uncharged
TGCAACTCCCCGTAGCAGCG	charged
ACGTTGAGGGGCAT	uncharged
TGCAACTCCCCGTAGCAGCG	charged
GTTGAGGGGCAT	uncharged
TGCAACTCCCCGTAGCAGCG	charged
TGAGGGGCATCGTCGC	uncharged

Fig. 3

T00E80'85hEh660

```
        CCCGTAGCAGCGNNNN   charged
ACGTTGAGGGGCATCGTCGC       uncharged

        CCCGTAGCAGCGNNNN   charged
ACGTTGAGGGGCATCGTC         uncharged

        CCCGTAGCAGCGNNNN   charged
ACGTTGAGGGGCATCG           uncharged
```

[NNNN is optional]

Fig. 4A

```
          CCGTAGCAGC       charged
ACGTTGAGGGGCATCGTCGC       uncharged

              C-
              /\
          CCGTAGAGC        charged
ACGTTGAGGGGCATCTCGC        uncharged
```

Fig. 4B

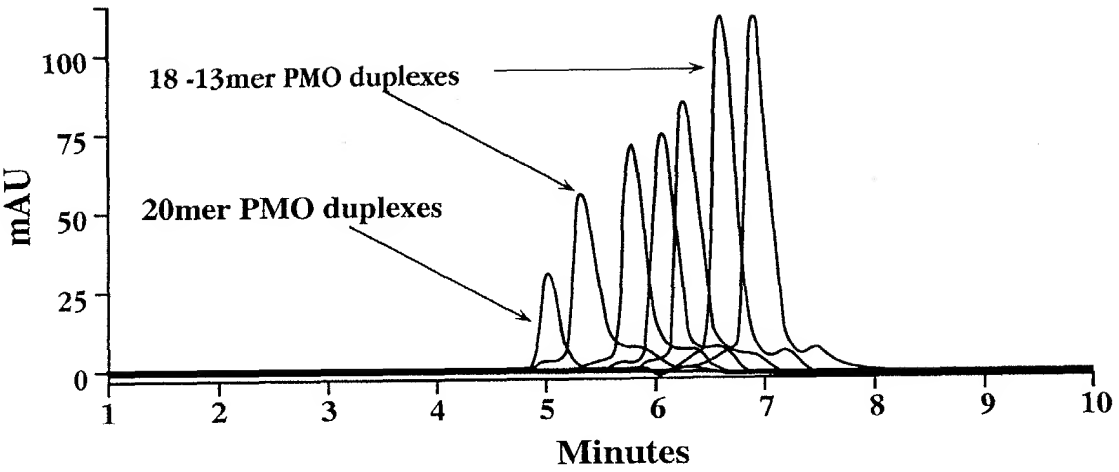

18 -13mer PMO duplexes
20mer PMO duplexes
mAU
100
75
50
25
0
1
2
3
4
5
6
7
8
9
10
Minutes

Fig. 5A

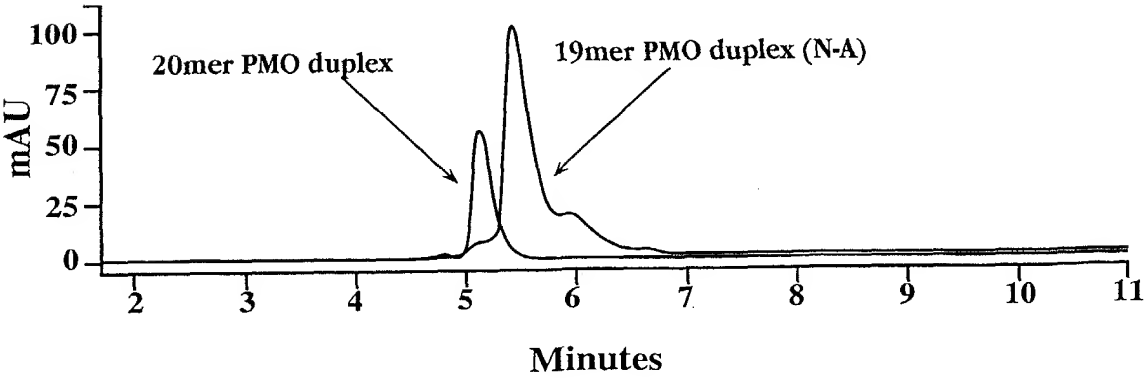

20mer PMO duplex
19mer PMO duplex (N-A)
mAU
100
75
50
25
0
2
3
4
5
6
7
8
9
10
11
Minutes

Fig. 5B

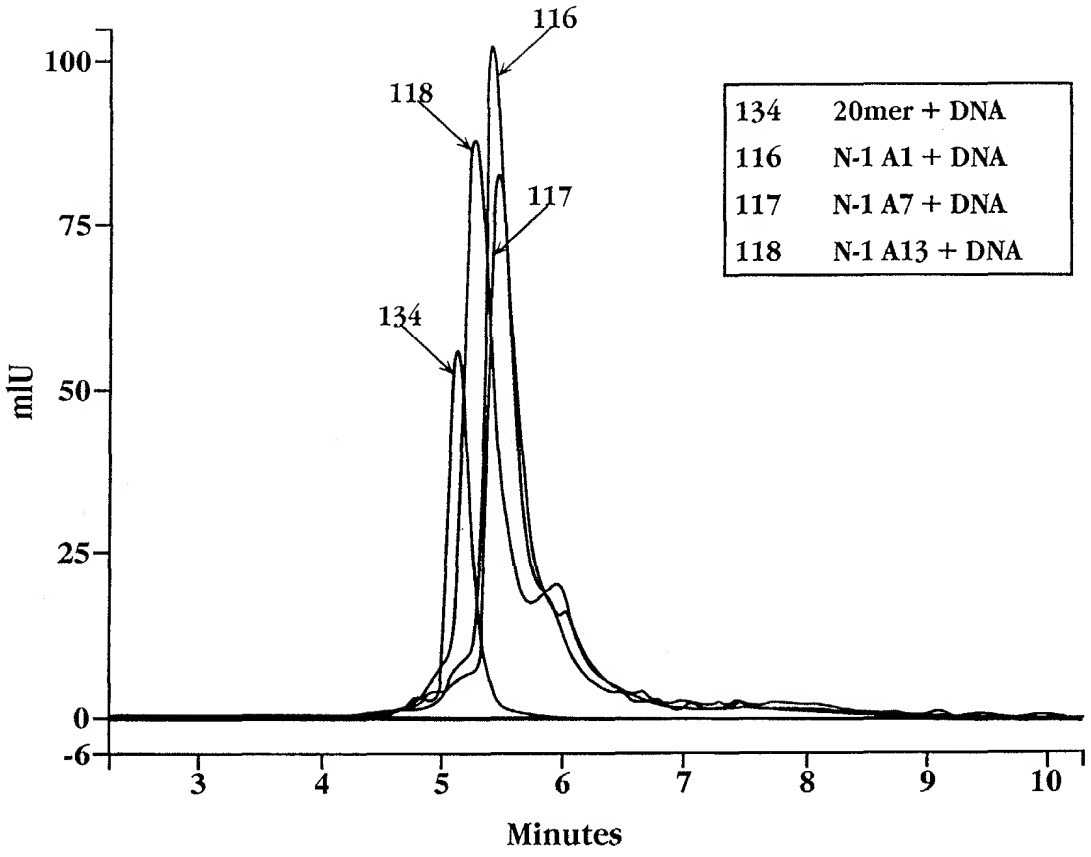

116
118
117
134
100
75
50
25
0
-6
mIU
3
4
5
6
7
8
9
10
Minutes
134 20mer + DNA
116 N-1 A1 + DNA
117 N-1 A7 + DNA
118 N-1 A13 + DNA

Fig. 6

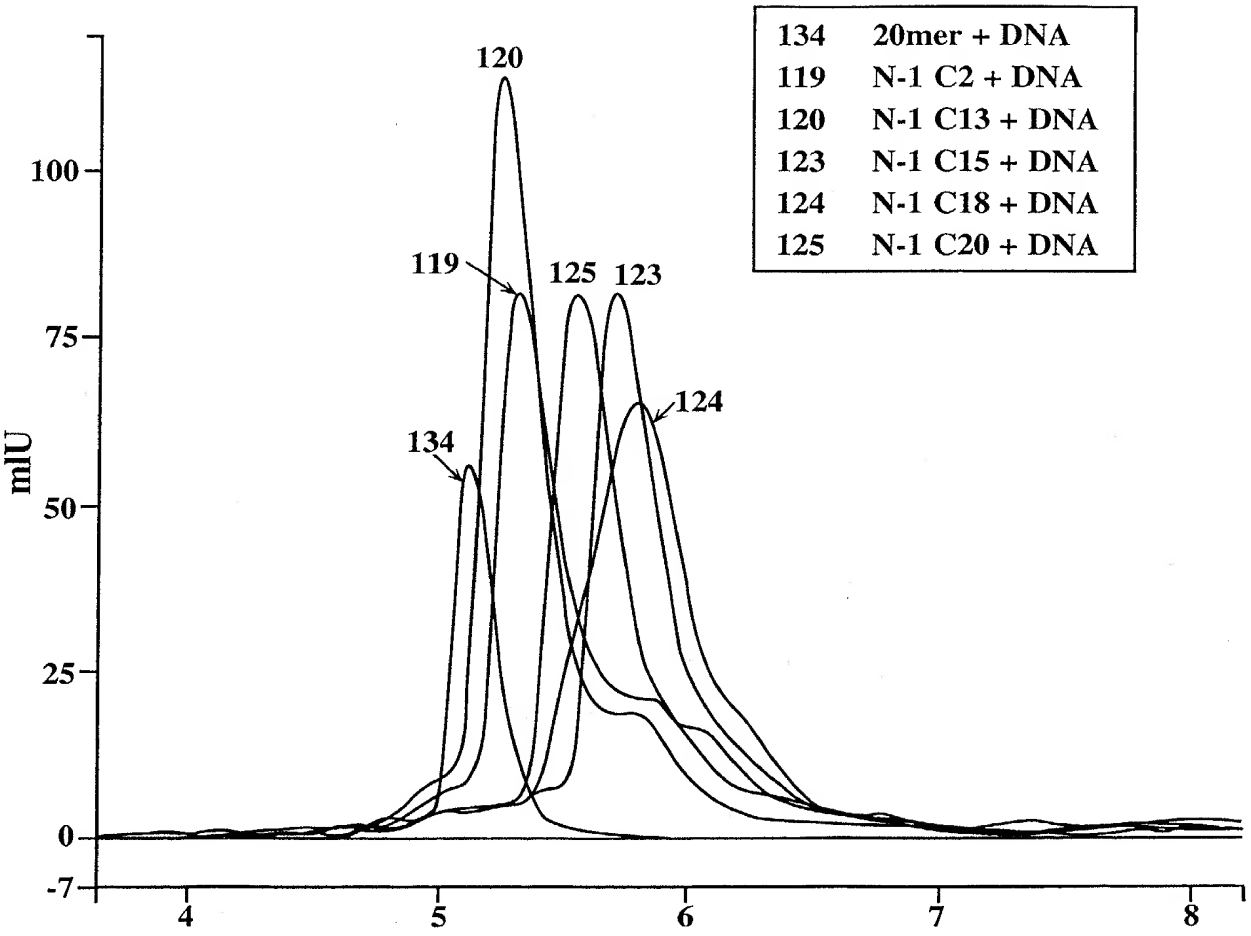

134 20mer + DNA
119 N-1 C2 + DNA
120 N-1 C13 + DNA
123 N-1 C15 + DNA
124 N-1 C18 + DNA
125 N-1 C20 + DNA
120
119
125
123
124
134
mIU
100
75
50
25
0
-7
4
5
6
7
8

Fig. 7

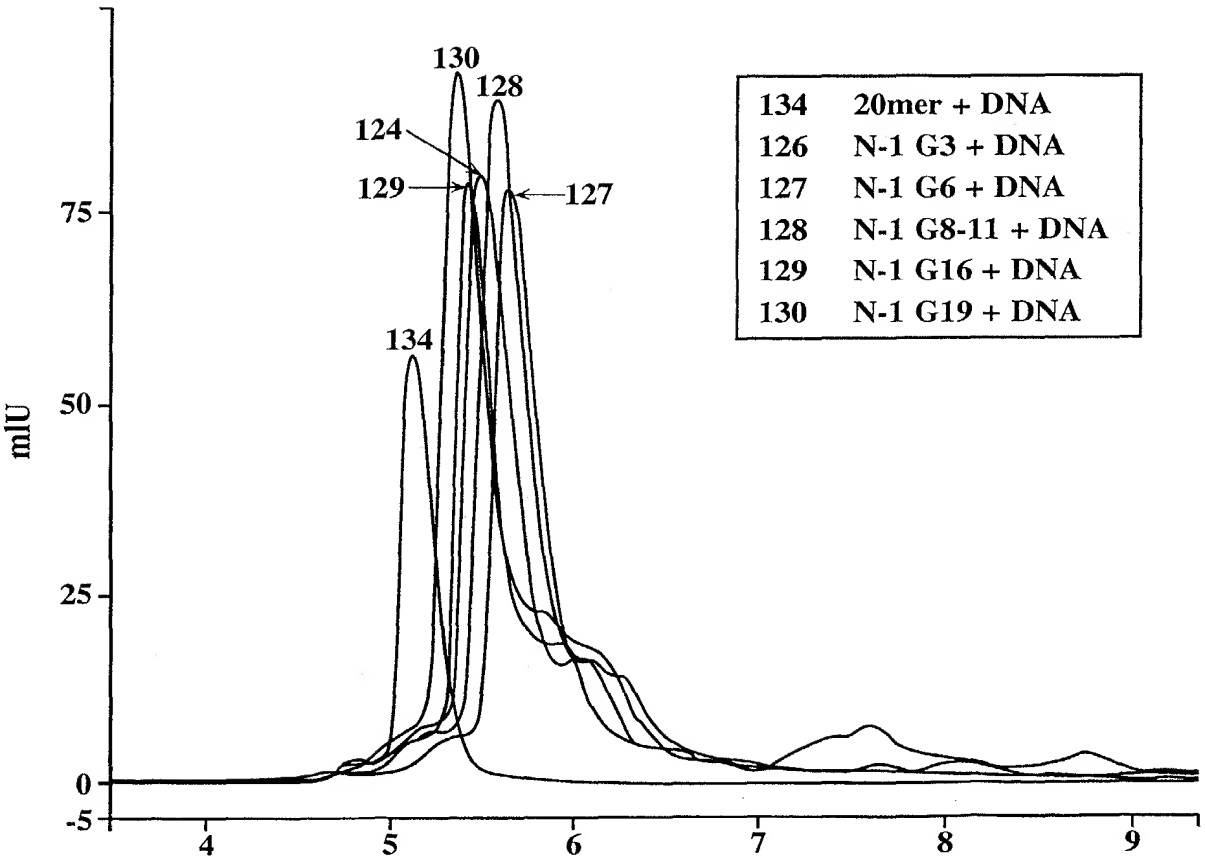

130
128
124
129
127
134
75
50
25
0
-5
mlU
4
5
6
7
8
9
134 20mer + DNA
126 N-1 G3 + DNA
127 N-1 G6 + DNA
128 N-1 G8-11 + DNA
129 N-1 G16 + DNA
130 N-1 G19 + DNA

Fig. 8

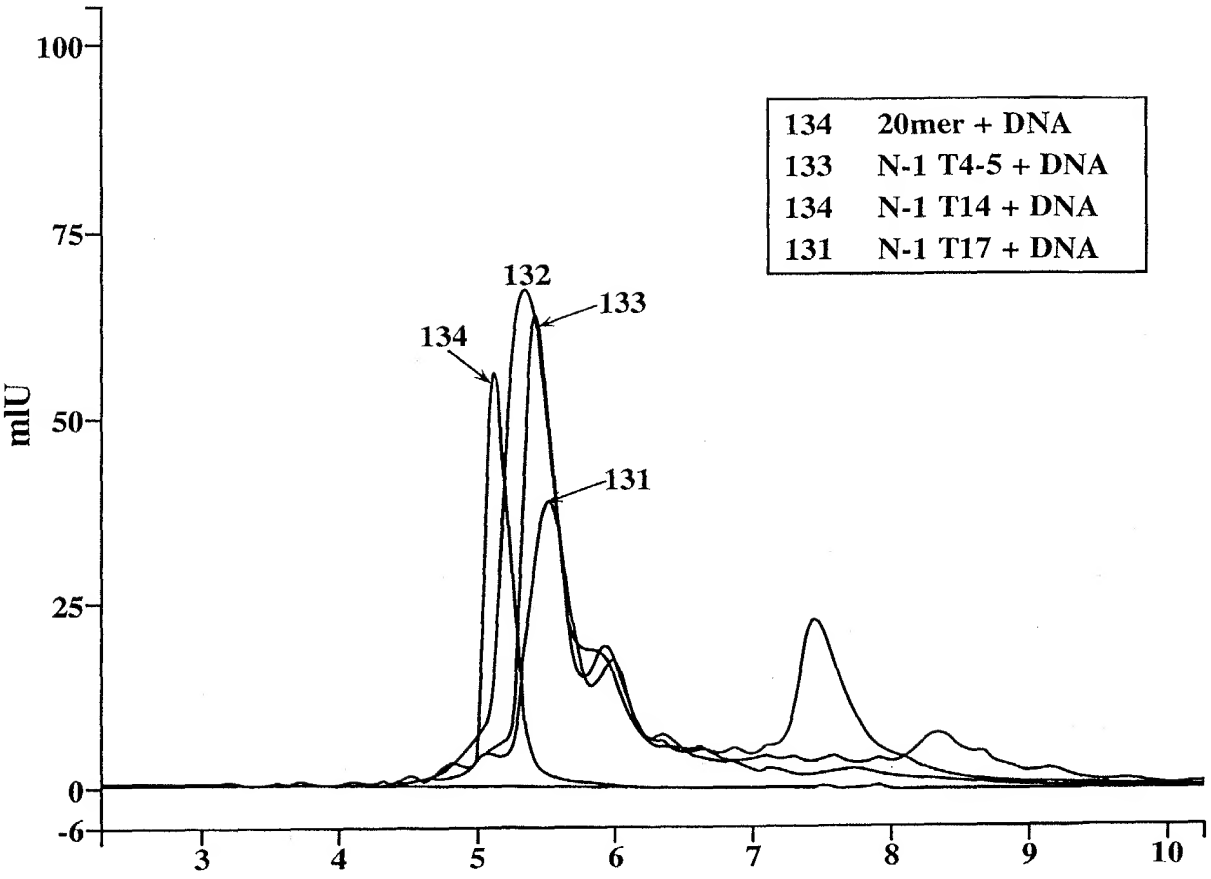

100
75
50
25
0
-6
mIU
3
4
5
6
7
8
9
10
134 20mer + DNA
133 N-1 T4-5 + DNA
134 N-1 T14 + DNA
131 N-1 T17 + DNA
132
133
134
131

Fig. 9

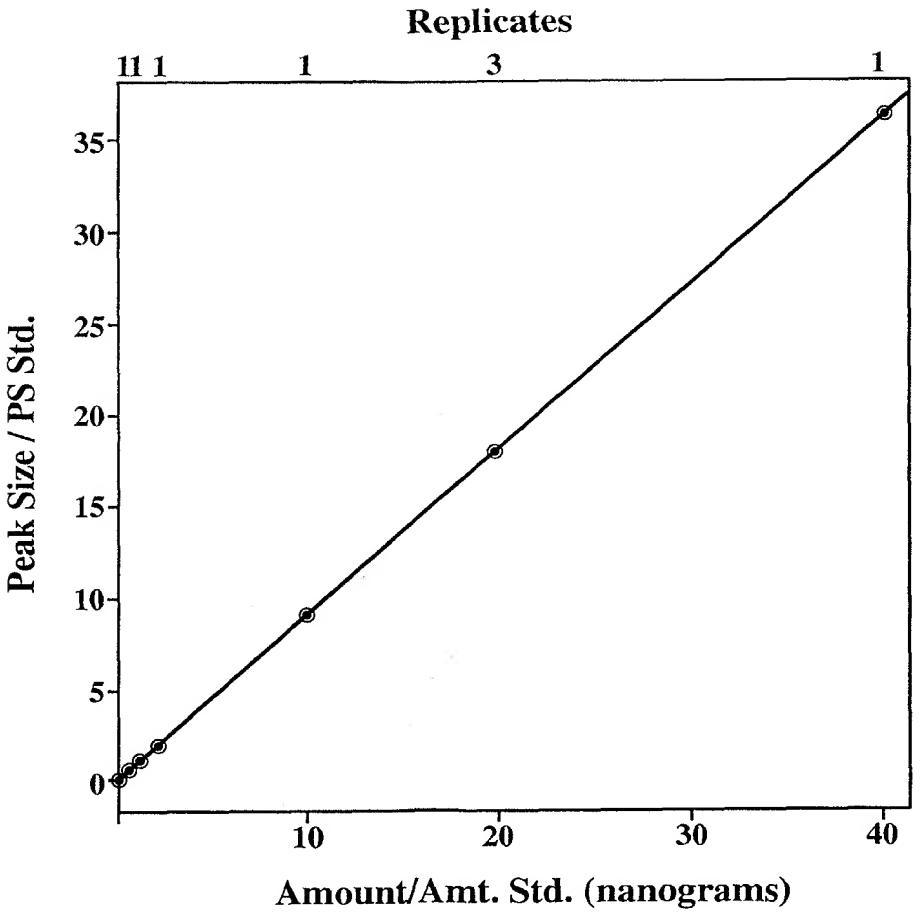
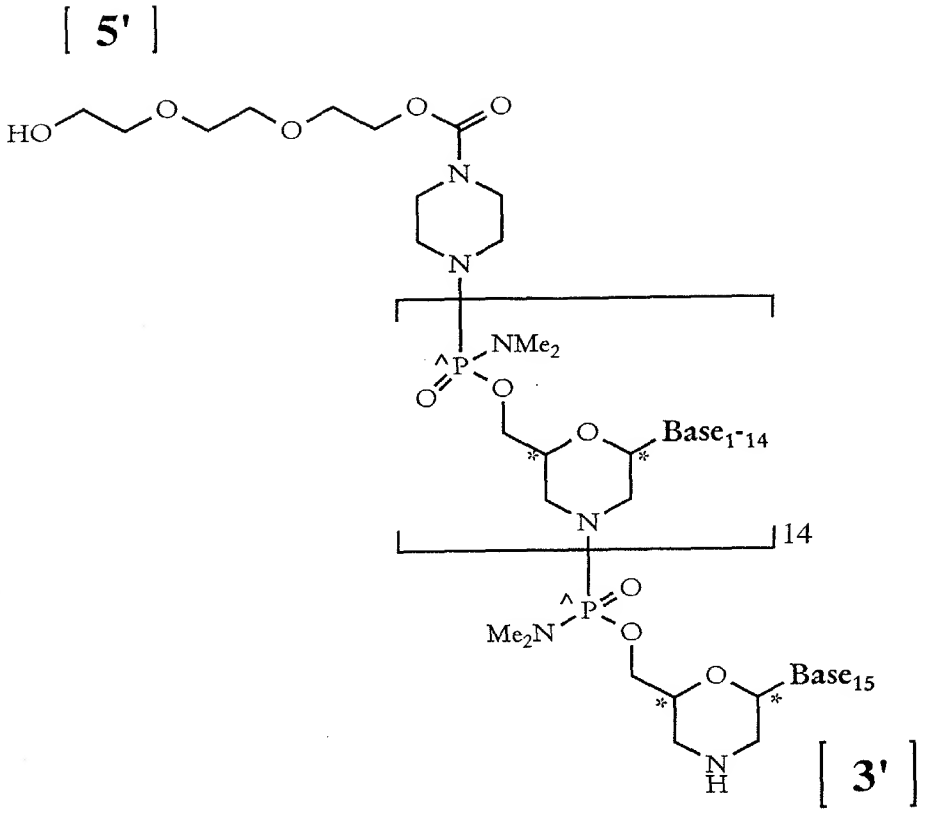

Replicates
11 1
1
3
1
35
30
25
20
15
10
5
0
Peak Size / PS Std.
10
20
30
40
Amount/Amt. Std. (nanograms)

Fig. 10



$Base_{1-15}$ = GAGGGGCATCGTCGC (5' ⟶ 3')

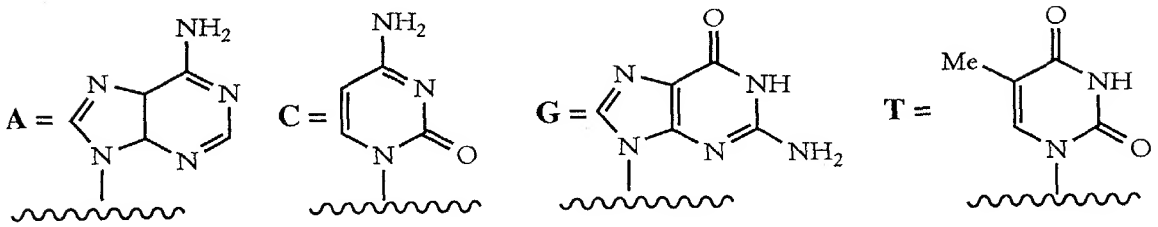


Fig. 11

T00E80 '85nEh660

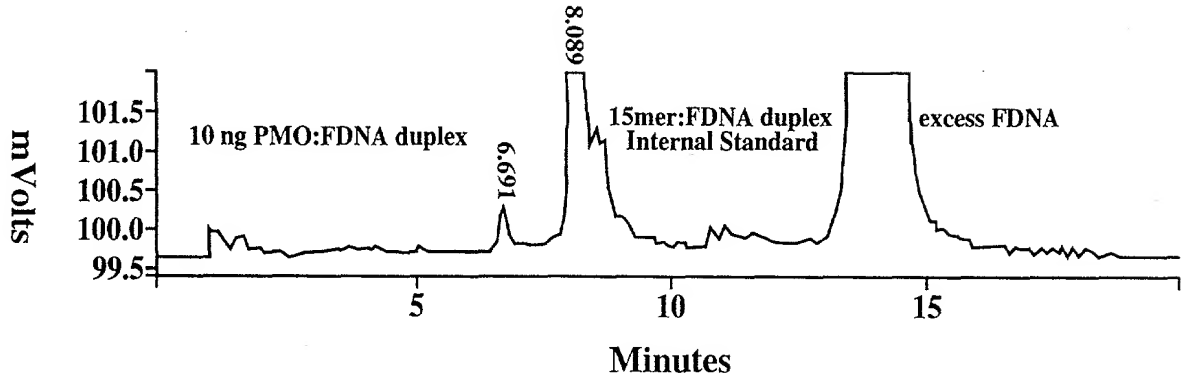


Fig. 12